Nuclear Instruments and Methods in Physics Research B52 (1990) 621–632
North-Holland

Author Index

Aitken, T.W., see Newton, G.W.A. B52 (1990) 290
Aitken, T.W., see Barker, J. B52 (1990) 540
Ajie, H.O., I.R. Kaplan, P.J. Slota Jr and R.E. Taylor, AMS radiocarbon dating of bone osteocalcin B52 (1990) 433
Allan, G., see Bird, J.R. B52 (1990) 348
Allan, G.L., see Fifield, L.K. B52 (1990) 233
Allen, K.W., see Andrews, H.R. B52 (1990) 243
Andreani, C., U. Buontempo, J. Mayers and F.P. Ricci, A new experimental method for phase diagram determinations by neutron absorption spectroscopy B52 (1990) 199
Andrews, H.R., G.C. Ball, R.M. Brown, R.J.J. Cornett, W.G. Davies, B.F. Greiner, Y. Imahori, V.T. Koslowsky, K. McKay, G.M. Milton, J.C.D. Milton and K.W. Allen, Development of the Chalk River program for ^{36}Cl B52 (1990) 243
Anthony, J.M., see McDaniel, F.D. B52 (1990) 310
Anthony, J.M., see Matteson, S. B52 (1990) 327
Anthony, J.M., S. Matteson, J.L. Duggan, P. Elliott, D. Marble, F.D. McDaniel and D. Weathers, Atomic mass spectrometry of materials B52 (1990) 493
Arnold, M., see Bard, E. B52 (1990) 461
Arutyunov, V.A., N.A. Kudryashov, O.A. Mishin, V.M. Samsonov and M.N. Strikhanov, Radiative polarization effects for relativistic beams in bent crystals B52 (1990) 13
Aucouturier, M., see Darque-Ceretti, E. B52 (1990) 79
Azzi, C., see Terrasi, F. B52 (1990) 259

Baba, N., see Kilius, L.R. B52 (1990) 357
Balashova, L.L., V.Ya. Chumanov and N.M. Kabachnik, Charge asymmetry in the angular dependence of energy loss in thin foils (*Letter to the Editor*) B52 (1990) 206
Balhorn, R., see Felton, J.S. B52 (1990) 517
Ball, G.C., see Andrews, H.R. B52 (1990) 243
Baranov, I.A., V.V. Obnorskii and S.O. Tsepelevich, The temperature dependence of the sputtering yield of islet-like gold films sputtered inelastically by ions B52 (1990) 9
Bard, E., B. Hamelin, R.G. Fairbanks, A. Zindler, G. Mathieu and M. Arnold, U/Th and ^{14}C ages of corals from Barbados and their use for calibrating the ^{14}C time scale beyond 9000 years B.P. (*Invited paper*) B52 (1990) 461
Barker, J., see Newton, G.W.A. B52 (1990) 290
Barker, J., J.P. Day, T.W. Aitken, T.R. Charlesworth, R.C. Cunningham, P.V. Drumm, J.S. Lilley, G.W.A. Newton and M.J. Smithson, Development of ^{26}Al accelerator mass spectrometry for biological and toxicological applications B52 (1990) 540
Baumgärtner, M., U. Emmerling, W. Ernst, E. Finckh, G. Fuchs, F. Gumbmann, M. Haller, R. Höpfl, R. Karschnick, W. Kretschmer, A. Rauscher, M. Schleider and W. Schuster, A new AMS facility in Erlangen – status and first results B52 (1990) 273
Beavers, R.L., see Matteson, S. B52 (1990) 327
Beer, J., see Synal, H.-A. B52 (1990) 483
Bella, F., see Terrasi, F. B52 (1990) 259
Bentley, H.W., see Norris, A.E. B52 (1990) 455
Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager, Study of laser interaction with negative ions B52 (1990) 378
Berkovits, D., see Boaretto, E. B52 (1990) 421
Bertsche, K.J., C.A. Karadi, R.A. Muller and G.C. Paulson, Detection of radiocarbon in the cyclotrino B52 (1990) 398
Bhattacharyya, M.H., see Elmore, D. B52 (1990) 531
Bichsel, H., Inelastic electronic collision cross sections for Monte Carlo calculations B52 (1990) 136
Bird, J.R., see Fifield, L.K. B52 (1990) 233
Bird, J.R., N. Shahgholi, A. Jenkinson, A. Smith, L.K. Fifield, T. Ophel and G. Allan, Problems of contamination in ^{36}Cl studies B52 (1990) 348
Bissessur, V. and I.S.T. Tsong, Velocity distributions of sputtered excited potassium atoms B52 (1990) 129

0168-583X/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Bitensky, I.S., see Della-Negra, S. B52 (1990) 121
Bittner, U., see Müller, D. B52 (1990) 366
Boaretto, E., see Berkovits, D. B52 (1990) 378
Boaretto, E., D. Berkovits, G. Hollos and M. Paul, Positive identification of XeH^- molecular ion B52 (1990) 421
Bobe, K., see Herpers, U. B52 (1990) 612
Bodemann, R., see Dittrich, B. B52 (1990) 588
Bolbach, G., see Della-Negra, S. B52 (1990) 121
Bonani, G., P. Eberhardt, H.J. Hofmann, Th.R. Niklaus, M. Suter, H.A. Synal and W. Wölfli, Efficiency improvements with a new stripper design B52 (1990) 338
Bonani, G., see Synal, H.-A. B52 (1990) 483
Bonani, G., see Hofmann, H.J. B52 (1990) 544
Brahana, J.V., see Vourvopoulos, G. B52 (1990) 451
Bremer, K., see Herpers, U. B52 (1990) 612
Brice, D.K., A model of hydrogen implantation into graphite including bulk recombination by tunneling B52 (1990) 140
Brondi, A., see Terrasi, F. B52 (1990) 259
Bronk, C.R. and R.E.M. Hedges, A gaseous ion source for routine AMS radiocarbon dating B52 (1990) 322
Bronk, C.R., see Freeman, S.P.H.T. B52 (1990) 405
Brown, R.M., see Andrews, H.R. B52 (1990) 243
Brown, T.A., see Schmidt, F.H. B52 (1990) 229
Brown, T.A., G.W. Farwell, P.M. Grootes, P.D. Quay and F.H. Schmidt, ^{14}C AMS at the University of Washington: measurements in a shared facility at the 1% level on 0.4 mg samples B52 (1990) 351
Bufa Zhang, see Yulin Cheng B52 (1990) 68
Buontempo, U., see Andreani, C. B52 (1990) 199

Caffee, M.W., see Davis, J.C. B52 (1990) 269
Caffee, M.W., see Southon, J.R. B52 (1990) 301
Caffee, M.W., see Felton, J.S. B52 (1990) 517
Campajola, L., see Terrasi, F. B52 (1990) 259
Campbell, J.L., see Teesdale, W.J. B52 (1990) 93
Chae, K.H., see Song, J.H. B52 (1990) 19
Chang Xiaowu, see Liu Lianfan B52 (1990) 298
Charlesworth, T.R., see Newton, G.W.A. B52 (1990) 290
Charlesworth, T.R., see Barker, J. B52 (1990) 540
Chen Chia-erh, Guo Zhiyu, Yan Shengqing, Zhang Zhengfang, Gong Linghua, Li Renxing, Yu Jingxiang, Li Kun, Liu Hongtao, Zhang Ruju, Liu Kexin, Chen Tiemei, Yuan Sixun, Si Houzhi and Zhang Weizhong, Status of the tandem accelerator mass spectrometry facility at Peking University B52 (1990) 306
Chen Tiemei, see Chen Chia-erh B52 (1990) 306
Cheng, S., see Norris, A.E. B52 (1990) 455
Chumanov, V.Ya., see Balashova, L.L. B52 (1990) 206
Chyi, J.-I., see Döbeli, M. B52 (1990) 72
Cipriano, M., see Terrasi, F. B52 (1990) 259
Cornett, R.J.J., see Andrews, H.R. B52 (1990) 243
Cunningham, R.A., see Newton, G.W.A. B52 (1990) 290
Cunningham, R.C., see Barker, J. B52 (1990) 540

Dagrovitsch, P., see Dittrich, B. B52 (1990) 588
Darque-Ceretti, E. and M. Aucouturier, Comparative XPS and SIMS depth profile analysis of Cu-implanted silicon: evidence of segregation effects B52 (1990) 79
Datar, S., see Kubik, P.W. B52 (1990) 238
Datar, S., see Gove, H.E. B52 (1990) 502
Davie, R.F., see Fifield, L.K. B52 (1990) 233
Davies, W.G., see Andrews, H.R. B52 (1990) 243
Davis, J.C., I.D. Proctor, J.R. Southon, M.W. Caffee, D.W. Heikkinen, M.L. Roberts, T.L. Moore, K.W. Turteltaub, D.E. Nelson, D.H. Loyd and J.S. Vogel, LLNL/UC AMS facility and research program B52 (1990) 269
Davis, J.C., see Southon, J.R. B52 (1990) 301
Davis, J.C., see Proctor, I.D. B52 (1990) 334
Davis, J.C., see Felton, J.S. B52 (1990) 517
Davis, J.C., see Vogel, J.S. B52 (1990) 524
Day, J.P., see Newton, G.W.A. B52 (1990) 290
Day, J.P., see Barker, J. B52 (1990) 540

De Jong, A.F.M., see Törnqvist, T.E. B52 (1990) 442
De Jong, A.F.M., see Van de Wal, R.S.W. B52 (1990) 469
Deling Pang, see Yulin Cheng B52 (1990) 68
Della-Negra, S., J. Depauw, H. Joret, Y. Le Beyec, I.S. Bitensky, G. Bolbach, R. Galera and K. Wien, Heavy particle induced ion emission from Langmuir–Blodgett films: dependence on the charge state and the angle of incidence B52 (1990) 121
Depauw, J., see Della-Negra, S. B52 (1990) 121
Dittrich, B., U. Herpers, H.J. Hofmann, W. Wölfli, R. Bodemann, M. Lüpke, R. Michel, P. Dagrovitsch and D. Filges, AMS measurements of thin-target cross sections for the production of ^{10}Be and ^{26}Al by high-energy protons B52 (1990) 588
Döbeli, M., P.C. Haubert, T.A. Tombrello, J.-I. Chyi, D. Huang and H. Morkoç, Indium profiles in InGaAs with heavy ion RBS B52 (1990) 72
Dockhorn, B., see Vourvopoulos, G. B52 (1990) 451
Donahue, D.J., A.J.T. Jull and L.J. Toolin, Radiocarbon measurements at the University of Arizona AMS facility B52 (1990) 224
Donahue, D.J., see Wilson, A.T. B52 (1990) 473
Donnelly, S.E., see Mitchell, D.R.G. B52 (1990) 160
D'Onofrio, A., see Terrasi, F. B52 (1990) 259
Dragovitch, P., see Herpers, U. B52 (1990) 612
Drumm, P.V., see Newton, G.W.A. B52 (1990) 290
Drumm, P.V., see Barker, J. B52 (1990) 540
Du Xueren, see Jiang Songsheng B52 (1990) 285
Duggan, J.L., see McDaniel, F.D. B52 (1990) 310
Duggan, J.L., see Matteson, S. B52 (1990) 327
Duggan, J.L., see Anthony, J.M. B52 (1990) 493

Eberhardt, P., see Bonani, G. B52 (1990) 338
Eddy, D., see Straume, T. B52 (1990) 552
El Khakani, M.A., G. Marest, N. Moncoffre and J. Tousset, Depth profiling of nickel using the nuclear resonant ^{58}Ni(p, γ)^{59}Cu reaction: application to Ni–Fe mixed bilayers and Ni-implanted iron B52 (1990) 182
Elliott, P., see Anthony, J.M. B52 (1990) 493
Elliott, P.S., see McDaniel, F.D. B52 (1990) 310
Elmore, D., see Kubik, P.W. B52 (1990) 238
Elmore, D., see Sharma, P. B52 (1990) 410
Elmore, D., see Fehn, U. B52 (1990) 446
Elmore, D., see Gove, H.E. B52 (1990) 502
Elmore, D., M.H. Bhattacharyya, N. Sacco-Gibson and D.P. Peterson, Calcium-41 as a long-term biological tracer for bone resorption B52 (1990) 531
Elmore, D., see Jiang, S.S. B52 (1990) 608
Emmerling, U., see Baumgärtner, M. B52 (1990) 273
Engström, P., see Shakir, N. B52 (1990) 194
Ernst, W., see Baumgärtner, M. B52 (1990) 273

Faestermann, T., see Müller, D. B52 (1990) 366
Faestermann, T., see Korschinek, G. B52 (1990) 498
Faestermann, Th., see Nolte, E. B52 (1990) 563
Fairbanks, R.G., see Bard, E. B52 (1990) 461
Farwell, G.W., see Schmidt, F.H. B52 (1990) 229
Farwell, G.W., see Brown, T.A. B52 (1990) 351
Fehn, U., see Kubik, P.W. B52 (1990) 238
Fehn, U., see Sharma, P. B52 (1990) 410
Fehn, U., S. Tullai-Fitzpatrick, R.T.D. Teng, H.E. Gove, P.W. Kubik, P. Sharma and D. Elmore, Dating of oil field brines using ^{129}I B52 (1990) 446
Fehn, U., see Gove, H.E. B52 (1990) 502
Felton, J.S., K.W. Turteltaub, J.S. Vogel, R. Balhorn, B.L. Gledhill, J.R. Southon, M.W. Caffee, R.C. Finkel, D.E. Nelson, I.D. Proctor and J.C. Davis, Accelerator mass spectrometry in the biomedical sciences: applications in low-exposure biomedical and environmental dosimetry (*Invited paper*) B52 (1990) 517
Felton, J.S., see Vogel, J.S. B52 (1990) 524
Fifield, L.K., T.R. Ophel, G.L. Allan, J.R. Bird and R.F. Davie, Accelerator mass spectrometry at the Australian National University's 14UD accelerator: experience and developments B52 (1990) 233

Fifield, L.K., see Bird, J.R. ... B52 (1990) 348
Filges, D., see Dittrich, B. ... B52 (1990) 588
Filges, D., see Herpers, U. ... B52 (1990) 612
Finckh, E., see Baumgärtner, M. ... B52 (1990) 273
Fink, D., see Meirav, O. ... B52 (1990) 536
Fink, D., J. Klein and R. Middleton, ^{41}Ca: past, present and future (*Invited paper*) ... B52 (1990) 572
Fink, D., J. Sisterson, S. Vogt, G. Herzog, J. Klein, R. Middleton, A. Koehler and A. Magliss, Production of ^{41}Ca and K, Sc and V short-lived isotopes by the irradiation of Ti with 35 to 150 MeV protons: applications to solar cosmic ray studies ... B52 (1990) 601
Finkel, R.C., see Felton, J.S. ... B52 (1990) 517
Finkel, R.C., see Straume, T. ... B52 (1990) 552
Fioretto, E., see Terrasi, F. ... B52 (1990) 259
Fournier, D., G.G. Ross and R.G. Saint-Jacques, The influence of the implantation temperature on the hydrogen and deuterium retention in TiC ... B52 (1990) 154
Freeman, S.P.H.T., C.R. Bronk and R.E.M. Hedges, The design of a radiocarbon microprobe for tracer mapping in biological specimens ... B52 (1990) 405
Fuchs, G., see Baumgärtner, M. ... B52 (1990) 273
Fujita, S., see Straume, T. ... B52 (1990) 552

Gail, H., see Nolte, E. ... B52 (1990) 563
Galera, R., see Della-Negra, S. ... B52 (1990) 121
Garibaldi, J.L., see Proctor, I.D. ... B52 (1990) 334
Garwan, M.A., see Kilius, L.R. ... B52 (1990) 357
Garwan, M.A., see Zhao, X-L. ... B52 (1990) 416
Garwan, M.A., L.R. Kilius, A.E. Litherland, M-J. Nadeau and X-L. Zhao, The negative ions of strontium and barium ... B52 (1990) 512
Gillespie, R., On the use of oxidation for AMS sample pretreatment ... B52 (1990) 345
Gillitzer, A., see Müller, D. ... B52 (1990) 366
Gillitzer, A., see Korschinek, G. ... B52 (1990) 498
Gillitzer, A., see Nolte, E. ... B52 (1990) 563
Glanvill, S.R., see Mitchell, D.R.G. ... B52 (1990) 160
Gledhill, B.L., see Felton, J.S. ... B52 (1990) 517
Gledhill, B.L., see Vogel, J.S. ... B52 (1990) 524
Gong Linghua, see Chen Chia-erh ... B52 (1990) 306
Götz, G., see Wendler, E. ... B52 (1990) 57
Gove, H.E., see Kubik, P.W. ... B52 (1990) 238
Gove, H.E., see Sharma, P. ... B52 (1990) 410
Gove, H.E., see Fehn, U. ... B52 (1990) 446
Gove, H.E., see Norris, A.E. ... B52 (1990) 455
Gove, H.E., see Scanlon, B.R. ... B52 (1990) 489
Gove, H.E., P.W. Kubik, P. Sharma, S. Datar, U. Fehn, T.Z. Hossain, J. Koffer, J.P. Lavine, S.-T. Lee and D. Elmore, Applications of AMS to electronic and silver halide imaging research ... B52 (1990) 502
Gove, H.E., see Straume, T. ... B52 (1990) 552
Gove, H.E., see Jiang, S.S. ... B52 (1990) 608
Greiner, B.F., see Andrews, H.R. ... B52 (1990) 243
Grootes, P.M., see Schmidt, F.H. ... B52 (1990) 229
Grootes, P.M., see Brown, T.A. ... B52 (1990) 351
Gumbmann, F., see Baumgärtner, M. ... B52 (1990) 273
Guo Zhiyu, see Chen Chia-erh ... B52 (1990) 306
Guocai Ma, see Yulin Cheng ... B52 (1990) 68

Halabe, A., see Meirav, O. ... B52 (1990) 536
Haller, M., see Baumgärtner, M. ... B52 (1990) 273
Hamelin, B., see Bard, E. ... B52 (1990) 461
Haubert, P.C., see Döbeli, M. ... B52 (1990) 72
Hedges, R.E.M., see Bronk, C.R. ... B52 (1990) 322
Hedges, R.E.M., see Freeman, S.P.H.T. ... B52 (1990) 405
Hedges, R.E.M., A review of the application of AMS-^{14}C dating to archaeology (*Invited paper*) ... B52 (1990) 428
Heikkinen, D.W., see Davis, J.C. ... B52 (1990) 269
Heikkinen, D.W., see Proctor, I.D. ... B52 (1990) 334

Heim, U., see Nolte, E. ... B52 (1990) 477
Hemmick, T.K., see Jiang, S.S. ... B52 (1990) 608
Henning, W., see Steinhof, A. ... B52 (1990) 391
Herpers, U., see Dittrich, B. ... B52 (1990) 588
Herpers, U., S. Vogt, K. Bremer, H.J. Hofmann, W. Wölfli, K. Bobe, D. Stöffler, R. Wieler, P. Signer, R. Michel, P. Dragovitch and D. Filges, Cosmogenic nuclides in eucrites ... B52 (1990) 612
Herzog, G., see Fink, D. ... B52 (1990) 601
Hoffman, A., P.J.K. Paterson and S. Prawer, Comparison of the effect of argon and hydrogen ion bombardment on the diamond (100) surface as studied by AES and EELS ... B52 (1990) 63
Hofmann, H.J., see Bonani, G. ... B52 (1990) 338
Hofmann, H.J., G. Bonani, M. Suter, W. Wölfli, D. Zimmermann and H.R. von Gunten, A new determination of the half-life of ^{32}Si ... B52 (1990) 544
Hofmann, H.J., see Dittrich, B. ... B52 (1990) 588
Hofmann, H.J., see Herpers, U. ... B52 (1990) 612
Hollos, G., see Berkovits, D. ... B52 (1990) 378
Hollos, G., see Boaretto, E. ... B52 (1990) 421
Homewood, K.P., see Kamil, E.A. ... B52 (1990) 51
Honda, M., see Nagai, H. ... B52 (1990) 568
Höpfl, R., see Baumgärtner, M. ... B52 (1990) 273
Hoshi, M., see Straume, T. ... B52 (1990) 552
Hossain, T.Z., see Gove, H.E. ... B52 (1990) 502
Hossain, T.Z., see Jiang, S.S. ... B52 (1990) 608
Huang, D., see Döbeli, M. ... B52 (1990) 72

Imaeda, K., see Iyono, A. ... B52 (1990) 98
Imahori, Y., see Andrews, H.R. ... B52 (1990) 243
Imamura, M., see Kobayashi, K. ... B52 (1990) 254
Imamura, M., see Nagai, H. ... B52 (1990) 568
Imamura, M., H. Nagai, M. Takabatake, S. Shibata, K. Kobayashi, K. Yoshida, H. Ohashi, Y. Uwamino and T. Nakamura, Measurements of production cross sections of ^{14}C and ^{26}Al with high-energy neutrons up to $E_n = 38$ MeV by accelerator mass spectrometry ... B52 (1990) 595
Iyono, A., I. Yamamoto, T. Tomiyama, K. Imaeda, T. Wada and M. Kanada, Coordinate measurement system supported by image processor for emulsion plates ... B52 (1990) 98

Jenkinson, A., see Bird, J.R. ... B52 (1990) 348
Jiang, S.S., T.K. Hemmick, P.W. Kubik, D. Elmore, H.E. Gove, S. Tullai-Fitzpatrick and T.Z. Hossain, Measurement of the ^{36}Ar(n, p)^{36}Cl cross section at thermal energies using the AMS technique ... B52 (1990) 608
Jiang Shan, see Jiang Songsheng ... B52 (1990) 285
Jiang Songsheng, Jiang Shan, Ma Teijun, Yang Bingfan and Du Xueren, Accelerator mass spectrometry with the Beijing HI-13 tandem ... B52 (1990) 285
Jin Yun Fan, see Wu Mei Zhen ... B52 (1990) 44
Johnson, R.R., see Meirav, O. ... B52 (1990) 536
Johnstone, J.A., A high energy approximation for calculating H^0 scattering distributions from H^- neutralization reactions ... B52 (1990) 1
Jones, G.A., A.P. McNihol, K.F. von Reden and R.J. Schneider, The National Ocean Sciences AMS Facility at Woods Hole Oceanographic Institution ... B52 (1990) 278
Joret, H., see Della-Negra, S. ... B52 (1990) 121
Jull, A.J.T., see Donahue, D.J. ... B52 (1990) 224
Junying Lin, see Yulin Cheng ... B52 (1990) 68

Kabachnik, N.M., see Balashova, L.L. ... B52 (1990) 206
Kamil, E.A., G. Srinivasan, K.P. Homewood and B.J. Sealy, A structural and spectroscopic evaluation of buried GaAlAs layers formed by dual ion implantation into GaAs ... B52 (1990) 51
Kanada, M., see Iyono, A. ... B52 (1990) 98
Kaplan, I.R., see Ajie, H.O. ... B52 (1990) 433
Karadi, C.A., see Bertsche, K.J. ... B52 (1990) 398
Karschnick, R., see Baumgärtner, M. ... B52 (1990) 273
Kato, K., see Rühm, W. ... B52 (1990) 557
Kauer, Th., see Pajek, M. ... B52 (1990) 109
Kieser, W.E., Operations, analytical work and research at the IsoTrace Laboratory ... B52 (1990) 249

Kilius, L.R., N. Baba, M.A. Garwan, A.E. Litherland, M.-J. Nadeau, J.C. Rucklidge, G.C. Wilson and X.-L. Zhao, AMS of heavy ions with small accelerators (*Invited paper*) B52 (1990) 357
Kilius, L.R., see Litherland, A.E. B52 (1990) 375
Kilius, L.R., see Zhao, X-L. B52 (1990) 416
Kilius, L.R., see Rucklidge, J.C. B52 (1990) 507
Kilius, L.R., see Garwan, M.A. B52 (1990) 512
Kim, S.O., see Song, J.H. B52 (1990) 19
Kinder, T.N., see Tubbs, L.E. B52 (1990) 438
Klein, J., see Meirav, O. B52 (1990) 536
Klein, J., see Fink, D. B52 (1990) 572
Klein, J., see Fink, D. B52 (1990) 601
Kobayashi, K., M. Imamura, H. Nagai, K. Yoshida, H. Ohashi, H. Yoshikawa and H. Yamashita, Static operation of an AMS system using the beam monitor method B52 (1990) 254
Kobayashi, K., see Nagai, H. B52 (1990) 568
Kobayashi, K., see Imamura, M. B52 (1990) 595
Kobzev, A.P., see Pajek, M. B52 (1990) 109
Kocharov, G.E., V.T. Kogan, A.N. Konstantinov and A.K. Pavlov, The possibilities of cosmogenic isotope investigation by means of mass-spectrometrical methods B52 (1990) 384
Kocharov, G.E., Investigation of astrophysical and geophysical problems by AMS: successes achieved and prospects B52 (1990) 583
Koehler, A., see Fink, D. B52 (1990) 601
Koffer, J., see Gove, H.E. B52 (1990) 502
Kogan, V.T., see Kocharov, G.E. B52 (1990) 384
Konstantinov, A.N., see Kocharov, G.E. B52 (1990) 384
Korschinek, G., see Müller, D. B52 (1990) 366
Korschinek, G., see Vourvopoulos, G. B52 (1990) 451
Korschinek, G., see Nolte, E. B52 (1990) 477
Korschinek, G., D. Müller, T. Faestermann, A. Gillitzer, E. Nolte and M. Paul, Trace analysis of ^{55}Fe in biosphere and technology by means of AMS B52 (1990) 498
Korschinek, G., see Rühm, W. B52 (1990) 557
Korschinek, G., see Nolte, E. B52 (1990) 563
Korschinek, G., see Priller, A. B52 (1990) 618
Koslowsky, V.T., see Andrews, H.R. B52 (1990) 243
Krauthan, P., see Nolte, E. B52 (1990) 477
Kretschmer, W., see Baumgärtner, M. B52 (1990) 273
Kubik, P.W., P. Sharma, R.T.D. Teng, S. Tullai-Fitzpatrick, S. Datar, U. Fehn, H.E. Gove and D. Elmore, The AMS program at the University of Rochester B52 (1990) 238
Kubik, P.W., see Sharma, P. B52 (1990) 410
Kubik, P.W., see Fehn, U. B52 (1990) 446
Kubik, P.W., see Norris, A.E. B52 (1990) 455
Kubik, P.W., see Scanlon, B.R. B52 (1990) 489
Kubik, P.W., see Gove, H.E. B52 (1990) 502
Kubik, P.W., see Straume, T. B52 (1990) 552
Kubik, P.W., see Jiang, S.S. B52 (1990) 608
Kudryashov, N.A., see Arutyunov, V.A. B52 (1990) 13
Kutschera, W., see Berkovits, D. B52 (1990) 378
Kutschera, W., see Steinhof, A. B52 (1990) 391

Lång, H., see Liljequist, D. B52 (1990) 83
Larsson, S., see Shakir, N. B52 (1990) 194
Lavine, J.P., see Gove, H.E. B52 (1990) 502
Le Beyec, Y., see Della-Negra, S. B52 (1990) 121
Lee, S.-T., see Gove, H.E. B52 (1990) 502
Li Kun, see Chen Chia-erh B52 (1990) 306
Li Renxing, see Chen Chia-erh B52 (1990) 306
Liljequist, D. and H. Lång, Discussion of very low energy electron ^{57}Fe Mössbauer spectroscopy B52 (1990) 83
Lilley, J.S., see Newton, G.W.A. B52 (1990) 290
Lilley, J.S., see Barker, J. B52 (1990) 540
Liping Zheng, see Yulin Cheng B52 (1990) 68
Litherland, A.E., see Kilius, L.R. B52 (1990) 357

Litherland, A.E. and L.R. Kilius, A recombinator for radiocarbon accelerator mass spectrometry B52 (1990) 375
Litherland, A.E., see Nadeau, M-J. B52 (1990) 387
Litherland, A.E., see Zhao, X-L. B52 (1990) 416
Litherland, A.E., see Purser, K.H. B52 (1990) 424
Litherland, A.E., see Garwan, M.A. B52 (1990) 512
Liu Hongtao, see Chen Chia-erh B52 (1990) 306
Liu Kexin, see Chen Chia-erh B52 (1990) 306
Liu Lianfan, Sheng Shugang, Si Houzhi, Yi Weixi and Chang Xiaowu, The AMS system at the Shanghai Institute of Nuclear Research B52 (1990) 298
Ljubicic, A., see Nolte, E. B52 (1990) 563
Logan, B.A., see Nolte, E. B52 (1990) 563
Loyd, D.H., see Davis, J.C. B52 (1990) 269
Lüpke, M., see Dittrich, B. B52 (1990) 588

Ma Teijun, see Jiang Songsheng B52 (1990) 285
Magliss, A., see Fink, D. B52 (1990) 601
Marble, D., see Matteson, S. B52 (1990) 327
Marble, D., see Anthony, J.M. B52 (1990) 493
Marble, D.K., see McDaniel, F.D. B52 (1990) 310
Marest, G., see El Khakani, M.A. B52 (1990) 182
Mathieu, G., see Bard, E. B52 (1990) 461
Matteson, S., see McDaniel, F.D. B52 (1990) 310
Matteson, S., J.L. Duggan, D. Marble, F.D. McDaniel, D.L. Weathers, D.K. Wilson, J.M. Anthony and R.L. Beavers, An ultra-clean microprobe ion source for atomic mass spectrometry B52 (1990) 327
Matteson, S., see Anthony, J.M. B52 (1990) 493
Mayers, J., see Andreani, C. B52 (1990) 199
McDaniel, F.D., S. Matteson, D.L. Weathers, D.K. Marble, J.L. Duggan, P.S. Elliott, D.K. Wilson and J.M. Anthony, The University of North Texas atomic mass spectrometry facility for detection of impurities in electronic materials and metals B52 (1990) 310
McDaniel, F.D., see Matteson, S. B52 (1990) 327
McDaniel, F.D., see Anthony, J.M. B52 (1990) 493
McKay, K., see Andrews, H.R. B52 (1990) 243
McNihol, A.P., see Jones, G.A. B52 (1990) 278
Meirav, O., R.A.L. Sutton, D. Fink, R. Middleton, J. Klein, V.R. Walker, A. Halabe, D. Vetterli and R.R. Johnson, Application of accelerator mass spectrometry in aluminum metabolism studies B52 (1990) 536
Michel, R., see Dittrich, B. B52 (1990) 588
Michel, R., see Herpers, U. B52 (1990) 612
Middleton, R., see Meirav, O. B52 (1990) 536
Middleton, R., see Fink, D. B52 (1990) 572
Middleton, R., see Fink, D. B52 (1990) 601
Miljanic, D., see Nolte, E. B52 (1990) 563
Miller, P.R., see Mitchell, D.R.G. B52 (1990) 160
Milton, G.M., see Andrews, H.R. B52 (1990) 243
Milton, J.C.D., see Andrews, H.R. B52 (1990) 243
Mishin, O.A., see Arutyunov, V.A. B52 (1990) 13
Mitchell, D.R.G., S.E. Donnelly, S.R. Glanvill, P.R. Miller and C.J. Rossouw, A TEM and EDX study of cavities in tin by xenon ion implantation B52 (1990) 160
Moncoffre, N., see El Khakani, M.A. B52 (1990) 182
Moore, T.L., see Davis, J.C. B52 (1990) 269
Moore, T.L., see Southon, J.R. B52 (1990) 301
Moore, T.L., see Proctor, I.D. B52 (1990) 334
Morinaga, H., see Rühm, W. B52 (1990) 557
Morkoç, H., see Döbeli, M. B52 (1990) 72
Müller, D., T. Faestermann, A. Gillitzer, G. Korschinek, E. Nolte, R. Scheuer and U. Bittner, AMS measurements at the Munich tandem with a time-of-flight setup B52 (1990) 366
Müller, D., see Korschinek, G. B52 (1990) 498
Müller, D., see Nolte, E. B52 (1990) 563
Müller, M., see Steinhof, A. B52 (1990) 391
Muller, R.A., see Bertsche, K.J. B52 (1990) 398

Naaman, R., see Berkovits, D. . . . B52 (1990) 378
Nadeau, M.-J., see Kilius, L.R. . . . B52 (1990) 357
Nadeau, M-J. and A.E. Litherland, Electric dissociation of negative ions . . . B52 (1990) 387
Nadeau, M-J., see Zhao, X-L. . . . B52 (1990) 416
Nadeau, M-J., see Garwan, M.A. . . . B52 (1990) 512
Nagai, H., see Kobayashi, K. . . . B52 (1990) 254
Nagai, H., M. Imamura, K. Kobayashi, K. Yoshida, H. Ohashi and M. Honda, High ^{10}Be production rate found in meteoritic carbons . . . B52 (1990) 568
Nagai, H., see Imamura, M. . . . B52 (1990) 595
Nakamura, T., see Imamura, M. . . . B52 (1990) 595
Nelson, D.E., see Davis, J.C. . . . B52 (1990) 269
Nelson, D.E., see Southon, J.R. . . . B52 (1990) 370
Nelson, D.E., see Felton, J.S. . . . B52 (1990) 517
Nelson, D.E., see Vogel, J.S. . . . B52 (1990) 524
Newton, G.W.A., T.W. Aitken, T.R. Charlesworth, R.A. Cunningham, P.V. Drumm, J.S. Lilley, M.J. Smithson, J. Barker, J.P. Day and F. Rehman, Development of AMS at Daresbury for fully-stripped heavy ions . . . B52 (1990) 290
Newton, G.W.A., see Barker, J. . . . B52 (1990) 540
Niklaus, Th.R., see Bonani, G. . . . B52 (1990) 338
Nishiizumi, K., see Sharma, P. . . . B52 (1990) 410
Nishiyama, F., see Takahiro, K. . . . B52 (1990) 117
Nolte, E., see Müller, D. . . . B52 (1990) 366
Nolte, E., see Vourvopoulos, G. . . . B52 (1990) 451
Nolte, E., P. Krauthan, U. Heim and G. Korschinek, ^{36}Cl measurements and dating of groundwater samples from the Milk River aquifer . . . B52 (1990) 477
Nolte, E., see Korschinek, G. . . . B52 (1990) 498
Nolte, E., see Rühm, W. . . . B52 (1990) 557
Nolte, E., Th. Faestermann, H. Gail, A. Gillitzer, G. Korschinek, D. Müller, R. Scheuer, V.M. Novikov, A.A. Pomansky, D. Miljanic, A. Ljubicic and B.A. Logan, Search for a violation of the Pauli exclusion principle for atomic electrons and for nucleons . . . B52 (1990) 563
Nolte, E., see Priller, A. . . . B52 (1990) 618
Norris, A.E., H.W. Bentley, S. Cheng, P.W. Kubik, P. Sharma and H.E. Gove, ^{36}Cl studies of water movements deep within unsaturated tuffs . . . B52 (1990) 455
Novikov, V.M., see Nolte, E. . . . B52 (1990) 563

Obnorskii, V.V., see Baranov, I.A. . . . B52 (1990) 9
Oerlemans, J., see Van de Wal, R.S.W. . . . B52 (1990) 469
Oerter, H., see Van de Wal, R.S.W. . . . B52 (1990) 469
Ohashi, H., see Kobayashi, K. . . . B52 (1990) 254
Ohashi, H., see Nagai, H. . . . B52 (1990) 568
Ohashi, H., see Imamura, M. . . . B52 (1990) 595
Ophel, T., see Bird, J.R. . . . B52 (1990) 348
Ophel, T.R., see Fifield, L.K. . . . B52 (1990) 233
Osaka, Y., see Takahiro, K. . . . B52 (1990) 117

Pajek, M., A.P. Kobzev, D. Trautmann and Th. Kauer, Systematic measurements of K-shell ionization by ^{3}He ions of energy 0.6–3.6 MeV . . . B52 (1990) 109
Paterson, P.J.K., see Hoffman, A. . . . B52 (1990) 63
Paul, M., Separation of isobars with a gas-filled magnet (*Invited paper*) . . . B52 (1990) 315
Paul, M., see Berkovits, D. . . . B52 (1990) 378
Paul, M., see Steinhof, A. . . . B52 (1990) 391
Paul, M., see Boaretto, E. . . . B52 (1990) 421
Paul, M., see Korschinek, G. . . . B52 (1990) 498
Paulson, G.C., see Bertsche, K.J. . . . B52 (1990) 398
Pavlov, A.K., see Kocharov, G.E. . . . B52 (1990) 384
Peterson, D.P., see Elmore, D. . . . B52 (1990) 531
Pogrebnjak, A.D. and A.M. Tolopa, A review of high-dose implantation and production of ion mixed structures . . . B52 (1990) 25
Pomansky, A.A., see Nolte, E. . . . B52 (1990) 563
Prawer, S., see Hoffman, A. . . . B52 (1990) 63
Priller, A., see Vourvopoulos, G. . . . B52 (1990) 451

Priller, A., G. Korschinek, E. Nolte and W. Rühm, A search for correlation between fall-out of cosmogenic chlorine-36 and solar activity ... B52 (1990) 618
Proctor, I.D., see Davis, J.C. ... B52 (1990) 269
Proctor, I.D., see Southon, J.R. ... B52 (1990) 301
Proctor, I.D., J.R. Southon, M.L. Roberts, J.C. Davis, D.W. Heikkinen, T.L. Moore, J.L. Garibaldi and T.A. Zimmerman, The LLNL ion source – past, present and future ... B52 (1990) 334
Proctor, I.D., see Felton, J.S. ... B52 (1990) 517
Proctor, I.D., see Vogel, J.S. ... B52 (1990) 524
Purser, K.H., T.H. Smick and R.K. Purser, A precision ^{14}C accelerator mass spectrometer (*Invited paper*) ... B52 (1990) 263
Purser, K.H. and A.E. Litherland, The elimination of charge-changing backgrounds in an AMS radiocarbon system ... B52 (1990) 424
Purser, R.K., see Purser, K.H. ... B52 (1990) 263

Quay, P.D., see Brown, T.A. ... B52 (1990) 351

Rauscher, A., see Baumgärtner, M. ... B52 (1990) 273
Reeh, N., see Van de Wal, R.S.W. ... B52 (1990) 469
Rehman, F., see Newton, G.W.A. ... B52 (1990) 290
Ricci, F.P., see Andreani, C. ... B52 (1990) 199
Richter, B.C., see Scanlon, B.R. ... B52 (1990) 489
Rindby, A., see Shakir, N. ... B52 (1990) 194
Roberts, M.L., see Davis, J.C. ... B52 (1990) 269
Roberts, M.L., see Proctor, I.D. ... B52 (1990) 334
Roeckl, E., see Steinhof, A. ... B52 (1990) 391
Romano, M., see Terrasi, F. ... B52 (1990) 259
Rong Lu, see Yulin Cheng ... B52 (1990) 68
Ross, G.G., see Fournier, D. ... B52 (1990) 154
Rossouw, C.J., see Mitchell, D.R.G. ... B52 (1990) 160
Rucklidge, J.C., see Kilius, L.R. ... B52 (1990) 357
Rucklidge, J.C., G.C. Wilson and L.R. Kilius, In situ trace element determination by AMS ... B52 (1990) 507
Rühm, W., K. Kato, G. Korschinek, H. Morinaga, A. Urban, L. Zerle and E. Nolte, The neutron spectrum of the Hiroshima A-bomb and the Dosimetry System 1986 ... B52 (1990) 557
Rühm, W., see Priller, A. ... B52 (1990) 618
Ryan, C.G., see Sie, S.H. ... B52 (1990) 294

Sacco-Gibson, N., see Elmore, D. ... B52 (1990) 531
Saint-Jacques, R.G., see Fournier, D. ... B52 (1990) 154
Samsonov, V.M., see Arutyunov, V.A. ... B52 (1990) 13
Scanlon, B.R., P.W. Kubik, P. Sharma, B.C. Richter and H.E. Gove, Bomb chlorine-36 analysis in the characterization of unsaturated flow at a proposed radioactive waste disposal facility, Chihuahuan Desert, Texas ... B52 (1990) 489
Scheuer, R., see Müller, D. ... B52 (1990) 366
Scheuer, R., see Nolte, E. ... B52 (1990) 563
Schleider, M., see Baumgärtner, M. ... B52 (1990) 273
Schmidt, F.H., T.A. Brown, G.W. Farwell and P.M. Grootes, The University of Washington AMS system: a six-year technical update ... B52 (1990) 229
Schmidt, F.H., see Brown, T.A. ... B52 (1990) 351
Schneider, R.J., see Jones, G.A. ... B52 (1990) 278
Schüll, D., see Steinhof, A. ... B52 (1990) 391
Schumacher, B., see Southon, J.R. ... B52 (1990) 301
Schuster, W., see Baumgärtner, M. ... B52 (1990) 273
Sealy, B.J., see Kamil, E.A. ... B52 (1990) 51
Shahgholi, N., see Bird, J.R. ... B52 (1990) 348
Shakir, N., S. Larsson, P. Engström and A. Rindby, X-ray microbeam spectroscopy: a biological application ... B52 (1990) 194
Sharma, P., see Kubik, P.W. ... B52 (1990) 238
Sharma, P., P.W. Kubik, U. Fehn, H.E. Gove, K. Nishiizumi and D. Elmore, Development of ^{36}Cl standards for AMS ... B52 (1990) 410
Sharma, P., see Fehn, U. ... B52 (1990) 446
Sharma, P., see Norris, A.E. ... B52 (1990) 455
Sharma, P., see Scanlon, B.R. ... B52 (1990) 489

Sharma, P., see Gove, H.E. ... B52 (1990) 502
Sharma, P., see Straume, T. ... B52 (1990) 552
Sheng Shugang, see Liu Lianfan ... B52 (1990) 298
Shibata, S., see Imamura, M. ... B52 (1990) 595
Si Houzhi, see Liu Lianfan ... B52 (1990) 298
Si Houzhi, see Chen Chia-erh ... B52 (1990) 306
Sie, S.H., C.G. Ryan and G.F. Suter, An AMS facility for minerals exploration research ... B52 (1990) 294
Signer, P., see Herpers, U. ... B52 (1990) 612
Sisterson, J., see Fink, D. ... B52 (1990) 601
Slota Jr., P.J., see Ajie, H.O. ... B52 (1990) 433
Smick, T.H., see Purser, K.H. ... B52 (1990) 263
Smith, A., see Bird, J.R. ... B52 (1990) 348
Smith, R.J., see Song, J.H. ... B52 (1990) 19
Smithson, M.J., see Newton, G.W.A. ... B52 (1990) 290
Smithson, M.J., see Barker, J. ... B52 (1990) 540
Song, J.H., S.O. Kim, K.H. Chae, J.J. Woo, C.N. Whang and R.J. Smith, Ion beam mixing variance profiles of Al and Pd in Al/Pd bilayers ... B52 (1990) 19
Southon, J.R., see Davis, J.C. ... B52 (1990) 269
Southon, J.R., M.W. Caffee, J.C. Davis, T.L. Moore, I.D. Proctor, B. Schumacher and J.S. Vogel, The new LLNL AMS spectrometer ... B52 (1990) 301
Southon, J.R., see Proctor, I.D. ... B52 (1990) 334
Southon, J.R., D.E. Nelson and J.S. Vogel, Injection systems for AMS: simultaneous versus sequential ... B52 (1990) 370
Southon, J.R., see Felton, J.S. ... B52 (1990) 517
Southon, J.R., see Vogel, J.S. ... B52 (1990) 524
Speer, J., see Steinhof, A. ... B52 (1990) 391
Srinivasan, G., see Kamil, E.A. ... B52 (1990) 51
Steinhof, A., W. Henning, M. Müller, E. Roeckl, D. Schüll, J. Speer, W. Kutschera and M. Paul, A ^{82}Kr pilot beam for the accelerator mass spectrometry of ^{41}Ca ... B52 (1990) 391
Stoffel, N.G., Theory and Monte Carlo simulations of ion channeling for determining lattice sites of substitutional atoms ... B52 (1990) 170
Stöffler, D., see Herpers, U. ... B52 (1990) 612
Straume, T., R.C. Finkel, D. Eddy, P.W. Kubik, H.E. Gove, P. Sharma, S. Fujita and M. Hoshi, Use of accelerator mass spectrometry in the dosimetry of Hiroshima neutrons ... B52 (1990) 552
Strikhanov, M.N., see Arutyunov, V.A. ... B52 (1990) 13
Suter, G.F., see Sie, S.H. ... B52 (1990) 294
Suter, M., Accelerator mass spectrometry: state of the art in 1990 (*Invited paper*) ... B52 (1990) 211
Suter, M., see Bonani, G. ... B52 (1990) 338
Suter, M., see Synal, H.-A. ... B52 (1990) 483
Suter, M., see Hofmann, H.J. ... B52 (1990) 544
Sutton, R.A.L., see Meirav, O. ... B52 (1990) 536
Synal, H.A., see Bonani, G. ... B52 (1990) 338
Synal, H.-A., J. Beer, G. Bonani, M. Suter and W. Wölfli, Atmosperic transport of bomb-produced ^{36}Cl ... B52 (1990) 483

Takabatake, M., see Imamura, M. ... B52 (1990) 595
Takahiro, K., F. Nishiyama, T. Yamasaki, Y. Osaka and S. Yamaguchi, Energy loss of ^{4}He ions in Mylar, Kapton and a-C:H ... B52 (1990) 117
Taylor, R.E., see Ajie, H.O. ... B52 (1990) 433
Teesdale, W.J. and J.L. Campbell, An on-demand beam deflection system for microbeam PIXE analysis ... B52 (1990) 93
Teng, R.T.D., see Kubik, P.W. ... B52 (1990) 238
Teng, R.T.D., see Fehn, U. ... B52 (1990) 446
Terrasi, F., L. Campajola, A. Brondi, M. Cipriano, A. D'Onofrio, E. Fioretto, M. Romano, C. Azzi, F. Bella and C. Tuniz, AMS at the TTT-3 tandem accelerator in Naples ... B52 (1990) 259
Tolopa, A.M., see Pogrebnjak, A.D. ... B52 (1990) 25
Tombrello, T.A., see Döbeli, M. ... B52 (1990) 72
Tomiyama, T., see Iyono, A. ... B52 (1990) 98
Tong Zhi Shen, see Wu Mei Zhen ... B52 (1990) 44
Toolin, L.J., see Donahue, D.J. ... B52 (1990) 224
Törnqvist, T.E., A.F.M. de Jong and K. van der Borg, Comparison of AMS ^{14}C ages of organic deposits and macrofossils: a progress report ... B52 (1990) 442
Tousset, J., see El Khakani, M.A. ... B52 (1990) 182

Trautmann, D., see Pajek, M. B52 (1990) 109
Tsepelevich, S.O., see Baranov, I.A. B52 (1990) 9
Tsong, I.S.T., see Bissessur, V. B52 (1990) 129
Tubbs, L.E. and T.N. Kinder, The use of AMS for the dating of lime mortars B52 (1990) 438
Tullai-Fitzpatrick, S., see Kubik, P.W. B52 (1990) 238
Tullai-Fitzpatrick, S., see Fehn, U. B52 (1990) 446
Tullai-Fitzpatrick, S., see Jiang, S.S. B52 (1990) 608
Tuniz, C., see Terrasi, F. B52 (1990) 259
Turek, I., ^{57}Fe Mössbauer profiles of magnetic solids with random electric field gradients B52 (1990) 187
Turteltaub, K.W., see Davis, J.C. B52 (1990) 269
Turteltaub, K.W., see Felton, J.S. B52 (1990) 517
Turteltaub, K.W., see Vogel, J.S. B52 (1990) 524

Urban, A., see Rühm, W. B52 (1990) 557
Uwamino, Y., see Imamura, M. B52 (1990) 595

Vager, Z., see Berkovits, D. B52 (1990) 378
Van de Wal, R.S.W., K. van der Borg, H. Oerter, N. Reeh, A.F.M. de Jong and J. Oerlemans, Progress in ^{14}C dating of ice at Utrecht B52 (1990) 469
Van der Borg, K., see Törnqvist, T.E. B52 (1990) 442
Van der Borg, K., see Van de Wal, R.S.W. B52 (1990) 469
Vetterli, D., see Meirav, O. B52 (1990) 536
Vogel, J.S., see Davis, J.C. B52 (1990) 269
Vogel, J.S., see Southon, J.R. B52 (1990) 301
Vogel, J.S., see Southon, J.R. B52 (1990) 370
Vogel, J.S., see Felton, J.S. B52 (1990) 517
Vogel, J.S., K.W. Turteltaub, J.S. Felton, B.L. Gledhill, D.E. Nelson, J.R. Southon, I.D. Proctor and J.C. Davis, Application of AMS to the biomedical sciences B52 (1990) 524
Vogt, S., see Fink, D. B52 (1990) 601
Vogt, S., see Herpers, U. B52 (1990) 612
Von Gunten, H.R., see Hofmann, H.J. B52 (1990) 544
Von Reden, K.F., see Jones, G.A. B52 (1990) 278
Vourvopoulos, G., J.V. Brahana, E. Nolte, G. Korschinek, A. Priller and B. Dockhorn, ^{36}Cl measurements and the hydrology of an acid injection site B52 (1990) 451

Wada, T., see Iyono, A. B52 (1990) 98
Walker, V.R., see Meirav, O. B52 (1990) 536
Wang Shu Fen, see Wu Mei Zhen B52 (1990) 44
Weathers, D., see Anthony, J.M. B52 (1990) 493
Weathers, D.L., see McDaniel, F.D. B52 (1990) 310
Weathers, D.L., see Matteson, S. B52 (1990) 327
Wendler, E., W. Wesch and G. Götz, Influence of the dose rate on the damage production in ion implanted GaAs B52 (1990) 57
Wesch, W., see Wendler, E. B52 (1990) 57
Whang, C.N., see Song, J.H. B52 (1990) 19
Wieler, R., see Herpers, U. B52 (1990) 612
Wien, K., see Della-Negra, S. B52 (1990) 121
Wilson, A.T. and D.J. Donahue, AMS carbon-14 dating of ice: progress and future prospects B52 (1990) 473
Wilson, D.K., see McDaniel, F.D. B52 (1990) 310
Wilson, D.K., see Matteson, S. B52 (1990) 327
Wilson, G.C., see Kilius, L.R. B52 (1990) 357
Wilson, G.C., see Rucklidge, J.C. B52 (1990) 507
Wölfli, W., see Bonani, G. B52 (1990) 338
Wölfli, W., see Synal, H.-A. B52 (1990) 483
Wölfli, W., see Hofmann, H.J. B52 (1990) 544
Wölfli, W., see Dittrich, B. B52 (1990) 588
Wölfli, W., see Herpers, U. B52 (1990) 612
Woo, J.J., see Song, J.H. B52 (1990) 19
Wu Mei Zhen, Tong Zhi Shen, Zhang Qiang, Jin Yun Fan and Wang Shu Fen, Internal conversion electron Mössbauer study of virgin and N^+ implanted 9Cr18 stainless bearing steel B52 (1990) 44

Yamaguchi, S., see Takahiro, K. B52 (1990) 117
Yamamoto, I., see Iyono, A. B52 (1990) 98
Yamasaki, T., see Takahiro, K. B52 (1990) 117
Yamashita, H., see Kobayashi, K. B52 (1990) 254
Yan Shengqing, see Chen Chia-erh B52 (1990) 306
Yang Bingfan, see Jiang Songsheng B52 (1990) 285
Yi Weixi, see Liu Lianfan B52 (1990) 298
Yoshida, K., see Kobayashi, K. B52 (1990) 254
Yoshida, K., see Nagai, H. B52 (1990) 568
Yoshida, K., see Imamura, M. B52 (1990) 595
Yoshikawa, H., see Kobayashi, K. B52 (1990) 254
Yu Jingxiang, see Chen Chia-erh B52 (1990) 306
Yuan Sixun, see Chen Chia-erh B52 (1990) 306
Yulin Cheng, Junying Lin, Bufa Zhang, Liping Zheng, Rong Lu, Deling Pang and Guocai Ma, Measurement of fast neutron fluences by the nuclear track technique B52 (1990) 68

Zerle, L., see Rühm, W. B52 (1990) 557
Zhang Qiang, see Wu Mei Zhen B52 (1990) 44
Zhang Ruju, see Chen Chia-erh B52 (1990) 306
Zhang Weizhong, see Chen Chia-erh B52 (1990) 306
Zhang Zhengfang, see Chen Chia-erh B52 (1990) 306
Zhao, X.-L., see Kilius, L.R. B52 (1990) 357
Zhao, X-L., M-J. Nadeau, M.A. Garwan, L.R. Kilius and A.E. Litherland, A new method for the separation of the isobars ^{7}Be–^{7}Li B52 (1990) 416
Zhao, X-L., see Garwan, M.A. B52 (1990) 512
Zimmerman, T.A., see Proctor, I.D. B52 (1990) 334
Zimmermann, D., see Hofmann, H.J. B52 (1990) 544
Zindler, A., see Bard, E. B52 (1990) 461

Nuclear Instruments and Methods in Physics Research B52 (1990) 633–637
North-Holland

Subject Index

Basic data for materials modification and analysis

Systematic measurements of K-shell ionization by ^{3}He ions of energy 0.6–3.6 MeV, Pajek, M., A.P. Kobzev, D. Trautmann and Th. Kauer B52 (1990) 109
Energy loss of ^{4}He ions in Mylar, Kapton and a-C:H, Takahiro, K., F. Nishiyama, T. Yamasaki, Y. Osaka and S. Yamaguchi B52 (1990) 117

Atomic collisions in solids

A high energy approximation for calculating H^{0} scattering distributions from H^{-} neutralization reactions, Johnstone, J.A. B52 (1990) 1
The temperature dependence of the sputtering yield of islet-like gold films sputtered inelastically by ions, Baranov, I.A., V.V. Obnorskii and S.O. Tsepelevich B52 (1990) 9
Radiative polarization effects for relativistic beams in bent crystals, Arutyunov, V.A., N.A. Kudryashov, O.A. Mishin, V.M. Samsonov and M.N. Strikhanov B52 (1990) 13
Heavy particle induced ion emission from Langmuir–Blodgett films: dependence on the charge state and the angle of incidence, Della-Negra, S., J. Depauw, H. Joret, Y. Le Beyec, I.S. Bitensky, G. Bolbach, R. Galera and K. Wien B52 (1990) 121
Velocity distributions of sputtered excited potassium atoms, Bissessur, V. and I.S.T. Tsong B52 (1990) 129
Inelastic electronic collision cross sections for Monte Carlo calculations, Bichsel, H. B52 (1990) 136

Ion beam modification of materials

Ion beam mixing variance profiles of Al and Pd in Al/Pd bilayers, Song, J.H., S.O. Kim, K.H. Chae, J.J. Woo, C.N. Whang and R.J. Smith B52 (1990) 19
A review of high-dose implantation and production of ion mixed structures, Pogrebnjak, A.D. and A.M. Tolopa B52 (1990) 25
Internal conversion electron Mössbauer study of virgin and N^{+} implanted 9Cr18 stainless bearing steel, Zhen, Wu Mei, Tong Zhi Shen, Zhang Qiang, Jin Yun Fan and Wang Shu Fen B52 (1990) 44
A structural and spectroscopic evaluation of buried GaAlAs layers formed by dual ion implantation into GaAs, Kamil, E.A., G. Srinivasan, K.P. Homewood and B.J. Sealy B52 (1990) 51
Influence of the dose rate on the damage production in ion implanted GaAs, Wendler, E., W. Wesch and G. Götz B52 (1990) 57
Comparison of the effect of argon and hydrogen ion bombardment on the diamond (100) surface as studied by AES and EELS, Hoffman, A., P.J.K. Paterson and S. Prawer B52 (1990) 63
A model of hydrogen implantation into graphite including bulk recombination by tunneling, Brice, D.K. B52 (1990) 140
The influence of the implantation temperature on the hydrogen and deuterium retention in TiC, Fournier, D., G.G. Ross and R.G. Saint-Jacques B52 (1990) 154
A TEM and EDX study of cavities in tin by xenon ion implantation, Mitchell, D.R.G., S.E. Donnelly, S.R. Glanvill, P.R. Miller and C.J. Rossouw B52 (1990) 160

Effects of radiation

Measurement of fast neutron fluences by the nuclear track technique, Yulin Cheng, Junying Lin, Bufa Zhang, Liping Zheng, Rong Lu, Deling Pang and Guocai Ma B52 (1990) 68

Analysis of materials

Indium profiles in InGaAs with heavy ion RBS, Döbeli, M., P.C. Haubert, T.A. Tombrello, J.-I. Chyi, D. Huang and H. Morkoç B52 (1990) 72

0168-583X/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Comparative XPS and SIMS depth profile analysis of Cu-implanted silicon: evidence of segregation effects, Darque-Ceretti, E. and M. Aucouturier B52 (1990) 79
Discussion of very low energy electron ^{57}Fe Mössbauer spectroscopy, Liljequist, D. and H. Lång B52 (1990) 83
Theory and Monte Carlo simulations of ion channeling for determining lattice sites of substitutional atoms, Stoffel, N.G. B52 (1990) 170
Depth profiling of nickel using the nuclear resonant ^{58}Ni(p, γ)^{59}Cu reaction: application to Ni–Fe mixed bilayers and Ni-implanted iron, El Khakani, M.A., G. Marest, N. Moncoffre and J. Tousset B52 (1990) 182
^{57}Fe Mössbauer profiles of magnetic solids with random electric field gradients, Turek, I. B52 (1990) 187
X-ray microbeam spectroscopy: a biological application, Shakir, N., S. Larsson, P. Engström and A. Rindby ... B52 (1990) 194

Proceedings of the Fifth International Conference on Accelerator Mass Spectrometry (Paris, France, April 23–27, 1990)

Section I. Progress reports

Accelerator mass spectrometry: state of the art in 1990 (*Invited paper*), Suter, M. B52 (1990) 211
Radiocarbon measurements at the University of Arizona AMS facility, Donahue, D.J., A.J.T. Jull and L.J. Toolin B52 (1990) 224
The University of Washington AMS system: a six-year technical update, Schmidt, F.H., T.A. Brown, G.W. Farwell and P.M. Grootes B52 (1990) 229
Accelerator mass spectrometry at the Australian National University's 14UD accelerator: experience and developments, Fifield, L.K., T.R. Ophel, G.L. Allan, J.R. Bird and R.F. Davie B52 (1990) 233
The AMS program at the University of Rochester, Kubik, P.W., P. Sharma, R.T.D. Teng, S. Tullai-Fitzpatrick, S. Datar, U. Fehn, H.E. Gove and D. Elmore B52 (1990) 238
Development of the Chalk River program for ^{36}Cl, Andrews, H.R., G.C. Ball, R.M. Brown, R.J.J. Cornett, W.G. Davies, B.F. Greiner, Y. Imahori, V.T. Koslowsky, K. McKay, G.M. Milton, J.C.D. Milton and K.W. Allen . B52 (1990) 243
Operations, analytical work and research at the IsoTrace Laboratory, Kieser, W.E. B52 (1990) 249
Static operation of an AMS system using the beam monitor method, Kobayashi, K., M. Imamura, H. Nagai, K. Yoshida, H. Ohashi, H. Yoshikawa and H. Yamashita B52 (1990) 254
AMS at the TTT-3 tandem accelerator in Naples, Terrasi, F., L. Campajola, A. Brondi, M. Cipriano, A. D'Onofrio, E. Fioretto, M. Romano, C. Azzi, F. Bella and C. Tuniz B52 (1990) 259

Section II. New and future facilities

A precision ^{14}C accelerator mass spectrometer (*Invited paper*), Purser, K.H., T.H. Smick and R.K. Purser B52 (1990) 263
LLNL/UC AMS facility and research program, Davis, J.C., I.D. Proctor, J.R. Southon, M.W. Caffee, D.W. Heikkinen, M.L. Roberts, T.L. Moore, K.W. Turteltaub, D.E. Nelson, D.H. Loyd and J.S. Vogel B52 (1990) 269
A new AMS facility in Erlangen – status and first results, Baumgärtner, M., U. Emmerling, W. Ernst, E. Finckh, G. Fuchs, F. Gumbmann, M. Haller, R. Höpfl, R. Karschnick, W. Kretschmer, A. Rauscher, M. Schleider and W. Schuster B52 (1990) 273
The National Ocean Sciences AMS Facility at Woods Hole Oceanographic Institution, Jones, G.A., A.P. McNihol, K.F. von Reden and R.J. Schneider B52 (1990) 278
Accelerator mass spectrometry with the Beijing HI-13 tandem, Jiang Songsheng, Jiang Shan, Ma Teijun, Yang Bingfan and Du Xueren B52 (1990) 285
Development of AMS at Daresbury for fully-stripped heavy ions, Newton, G.W.A., T.W. Aitken, T.R. Charlesworth, R.A. Cunningham, P.V. Drumm, J.S. Lilley, M.J. Smithson, J. Barker, J.P. Day and F. Rehman B52 (1990) 290
An AMS facility for minerals exploration research, Sie, S.H., C.G. Ryan and G.F. Suter B52 (1990) 294
The AMS system at the Shanghai Institute of Nuclear Research, Liu Lianfan, Sheng Shugang, Si Houzhi, Yi Weixi and Chang Xiaowu B52 (1990) 298
The new LLNL AMS spectrometer, Southon, J.R., M.W. Caffee, J.C. Davis, T.L. Moore, I.D. Proctor, B. Schumacher and J.S. Vogel B52 (1990) 301
Status of the tandem accelerator mass spectrometry facility at Peking University, Chen Chia-erh, Guo Zhiyu, Yan Shengqing, Zhang Zhengfang, Gong Linghua, Li Renxing, Yu Jingxiang, Li Kun, Liu Hongtao, Zhang Ruju, Liu Kexin, Chen Tiemei, Yuan Sixun, Si Houzhi and Zhang Weizhong B52 (1990) 306
The University of North Texas atomic mass spectrometry facility for detection of impurities in electronic materials and metals, McDaniel, F.D., S. Matteson, D.L. Weathers, D.K. Marble, J.L. Duggan, P.S. Elliott, D.K. Wilson and J.M. Anthony B52 (1990) 310

Section III. Technical developments

Separation of isobars with a gas-filled magnet (*Invited paper*), Paul, M. . . . B52 (1990) 315
A gaseous ion source for routine AMS radiocarbon dating, Bronk, C.R. and R.E.M. Hedges . . . B52 (1990) 322
An ultra-clean microprobe ion source for atomic mass spectrometry, Matteson, S., J.L. Duggan, D. Marble, F.D. McDaniel, D.L. Weathers, D.K. Wilson, J.M. Anthony and R.L. Beavers . . . B52 (1990) 327
The LLNL ion source – past, present and future, Proctor, I.D., J.R. Southon, M.L. Roberts, J.C. Davis, D.W. Heikkinen, T.L. Moore, J.L. Garibaldi and T.A. Zimmerman . . . B52 (1990) 334
Efficiency improvements with a new stripper design, Bonani, G., P. Eberhardt, H.J. Hofmann, Th.R. Niklaus, M. Suter, H.A. Synal and W. Wölfli . . . B52 (1990) 338
On the use of oxidation for AMS sample pretreatment, Gillespie, R. . . . B52 (1990) 345
Problems of contamination in ^{36}Cl studies, Bird, J.R., N. Shahgholi, A. Jenkinson, A. Smith, L.K. Fifield, T. Ophel and G. Allan . . . B52 (1990) 348
^{14}C AMS at the University of Washington: measurements in a shared facility at the 1% level on 0.4 mg samples, Brown, T.A., G.W. Farwell, P.M. Grootes, P.D. Quay and F.H. Schmidt . . . B52 (1990) 351
AMS of heavy ions with small accelerators (*Invited paper*), Kilius, L.R., N. Baba, M.A. Garwan, A.E. Litherland, M.-J. Nadeau, J.C. Rucklidge, G.C. Wilson and X.-L. Zhao . . . B52 (1990) 357
AMS measurements at the Munich tandem with a time-of-flight setup, Müller, D., T. Faestermann, A. Gillitzer, G. Korschinek, E. Nolte, R. Scheuer and U. Bittner . . . B52 (1990) 366
Injection systems for AMS: simultaneous versus sequential, Southon, J.R., D.E. Nelson and J.S. Vogel . . . B52 (1990) 370
A recombinator for radiocarbon accelerator mass spectrometry, Litherland, A.E. and L.R. Kilius . . . B52 (1990) 375
Study of laser interaction with negative ions, Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager . . . B52 (1990) 378
The possibilities of cosmogenic isotope investigation by means of mass-spectrometrical methods, Kocharov, G.E., V.T. Kogan, A.N. Konstantinov and A.K. Pavlov . . . B52 (1990) 384
Electric dissociation of negative ions, Nadeau, M-J. and A.E. Litherland . . . B52 (1990) 387
A ^{82}Kr pilot beam for the accelerator mass spectrometry of ^{41}Ca, Steinhof, A., W. Henning, M. Müller, E. Roeckl, D. Schüll, J. Speer, W. Kutschera and M. Paul . . . B52 (1990) 391
Detection of radiocarbon in the cyclotrino, Bertsche, K.J., C.A. Karadi, R.A. Muller and G.C. Paulson . . . B52 (1990) 398
The design of a radiocarbon microprobe for tracer mapping in biological specimens, Freeman, S.P.H.T., C.R. Bronk and R.E.M. Hedges . . . B52 (1990) 405
Development of ^{36}Cl standards for AMS, Sharma, P., P.W. Kubik, U. Fehn, H.E. Gove, K. Nishiizumi and D. Elmore . . . B52 (1990) 410
A new method for the separation of the isobars ^{7}Be–^{7}Li, Zhao, X-L., M-J. Nadeau, M.A. Garwan, L.R. Kilius and A.E. Litherland . . . B52 (1990) 416
Positive identification of XeH^- molecular ion, Boaretto, E., D. Berkovits, G. Hollos and M. Paul . . . B52 (1990) 421
The elimination of charge-changing backgrounds in an AMS radiocarbon system, Purser, K.H. and A.E. Litherland . . . B52 (1990) 424

Section IV. Applications

IV(a). Archaeology and earth sciences

A review of the application of AMS-^{14}C dating to archaeology (*Invited paper*), Hedges, R.E.M. . . . B52 (1990) 428
AMS radiocarbon dating of bone osteocalcin, Ajie, H.O., I.R. Kaplan, P.J. Slota Jr and R.E. Taylor . . . B52 (1990) 433
The use of AMS for the dating of lime mortars, Tubbs, L.E. and T.N. Kinder . . . B52 (1990) 438
Comparison of AMS ^{14}C ages of organic deposits and macrofossils: a progress report, Törnqvist, T.E., A.F.M. de Jong and K. van der Borg . . . B52 (1990) 442
Dating of oil field brines using ^{129}I, Fehn, U., S. Tullai-Fitzpatrick, R.T.D. Teng, H.E. Gove, P.W. Kubik, P. Sharma and D. Elmore . . . B52 (1990) 446
^{36}Cl measurements and the hydrology of an acid injection site, Vourvopoulos, G., J.V. Brahana, E. Nolte, G. Korschinek, A. Priller and B. Dockhorn . . . B52 (1990) 451
^{36}Cl studies of water movements deep within unsaturated tuffs, Norris, A.E., H.W. Bentley, S. Cheng, P.W. Kubik, P. Sharma and H.E. Gove . . . B52 (1990) 455
U/Th and ^{14}C ages of corals from Barbados and their use for calibrating the ^{14}C time scale beyond 9000 years B.P. (*Invited paper*), Bard, E., B. Hamelin, R.G. Fairbanks, A. Zindler, G. Mathieu and M. Arnold . . . B52 (1990) 461
Progress in ^{14}C dating of ice at Utrecht, Van de Wal, R.S.W., K. van der Borg, H. Oerter, N. Reeh, A.F.M. de Jong and J. Oerlemans . . . B52 (1990) 469
AMS carbon-14 dating of ice: progress and future prospects, Wilson, A.T. and D.J. Donahue . . . B52 (1990) 473

^{36}Cl measurements and dating of groundwater samples from the Milk River aquifer, Nolte, E., P. Krauthan, U. Heim and G. Korschinek ... B52 (1990) 477
Atmosperic transport of bomb-produced ^{36}Cl, Synal, H.-A., J. Beer, G. Bonani, M. Suter and W. Wölfli ... B52 (1990) 483
Bomb chlorine-36 analysis in the characterization of unsaturated flow at a proposed radioactive waste disposal facility, Chihuahuan Desert, Texas, Scanlon, B.R., P.W. Kubik, P. Sharma, B.C. Richter and H.E. Gove ... B52 (1990) 489

IV(b). Trace element analysis and atomic physics

Atomic mass spectrometry of materials, Anthony, J.M., S. Matteson, J.L. Duggan, P. Elliott, D. Marble, F.D. McDaniel and D. Weathers ... B52 (1990) 493
Trace analysis of ^{55}Fe in biosphere and technology by means of AMS, Korschinek, G., D. Müller, T. Faestermann, A. Gillitzer, E. Nolte and M. Paul ... B52 (1990) 498
Applications of AMS to electronic and silver halide imaging research, Gove, H.E., P.W. Kubik, P. Sharma, S. Datar, U. Fehn, T.Z. Hossain, J. Koffer, J.P. Lavine, S.-T. Lee and D. Elmore ... B52 (1990) 502
In situ trace element determination by AMS, Rucklidge, J.C., G.C. Wilson and L.R. Kilius ... B52 (1990) 507
The negative ions of strontium and barium, Garwan, M.A., L.R. Kilius, A.E. Litherland, M-J. Nadeau and X-L. Zhao ... B52 (1990) 512

IV(c). Biomedical sciences

Accelerator mass spectrometry in the biomedical sciences: applications in low-exposure biomedical and environmental dosimetry (*Invited paper*), Felton, J.S., K.W. Turteltaub, J.S. Vogel, R. Balhorn, B.L. Gledhill, J.R. Southon, M.W. Caffee, R.C. Finkel, D.E. Nelson, I.D. Proctor and J.C. Davis ... B52 (1990) 517
Application of AMS to the biomedical sciences, Vogel, J.S., K.W. Turteltaub, J.S. Felton, B.L. Gledhill, D.E. Nelson, J.R. Southon, I.D. Proctor and J.C. Davis ... B52 (1990) 524
Calcium-41 as a long-term biological tracer for bone resorption, Elmore, D., M.H. Bhattacharyya, N. Sacco-Gibson and D.P. Peterson ... B52 (1990) 531
Application of accelerator mass spectrometry in aluminum metabolism studies, Meirav, O., R.A.L. Sutton, D. Fink, R. Middleton, J. Klein, V.R. Walker, A. Halabe, D. Vetterli and R.R. Johnson ... B52 (1990) 536
Development of ^{26}Al accelerator mass spectrometry for biological and toxicological applications, Barker, J., J.P. Day, T.W. Aitken, T.R. Charlesworth, R.C. Cunningham, P.V. Drumm, J.S. Lilley, G.W.A. Newton and M.J. Smithson ... B52 (1990) 540

IV(d). Nuclear physics and astrophysics

A new determination of the half-life of ^{32}Si, Hofmann, H.J., G. Bonani, M. Suter, W. Wölfli, D. Zimmermann and H.R. von Gunten ... B52 (1990) 544
Use of accelerator mass spectrometry in the dosimetry of Hiroshima neutrons, Straume, T., R.C. Finkel, D. Eddy, P.W. Kubik, H.E. Gove, P. Sharma, S. Fujita and M. Hoshi ... B52 (1990) 552
The neutron spectrum of the Hiroshima A-bomb and the Dosimetry System 1986, Rühm, W., K. Kato, G. Korschinek, H. Morinaga, A. Urban, L. Zerle and E. Nolte ... B52 (1990) 557
Search for a violation of the Pauli exclusion principle for atomic electrons and for nucleons, Nolte, E., Th. Faestermann, H. Gail, A. Gillitzer, G. Korschinek, D. Müller, R. Scheuer, V.M. Novikov, A.A. Pomansky, D. Miljanic, A. Ljubicic and B.A. Logan ... B52 (1990) 563
High ^{10}Be production rate found in meteoritic carbons, Nagai, H., M. Imamura, K. Kobayashi, K. Yoshida, H. Ohashi and M. Honda ... B52 (1990) 568
^{41}Ca: past, present and future (*Invited paper*), Fink, D., J. Klein and R. Middleton ... B52 (1990) 572
Investigation of astrophysical and geophysical problems by AMS: successes achieved and prospects, Kocharov, G.E. ... B52 (1990) 583
AMS measurements of thin-target cross sections for the production of ^{10}Be and ^{26}Al by high-energy protons, Dittrich, B., U. Herpers, H.J. Hofmann, W. Wölfli, R. Bodemann, M. Lüpke, R. Michel, P. Dagrovitsch and D. Filges ... B52 (1990) 588
Measurements of production cross sections of ^{14}C and ^{26}Al with high-energy neutrons up to $E_n = 38$ MeV by accelerator mass spectrometry, Imamura, M., H. Nagai, M. Takabatake, S. Shibata, K. Kobayashi, K. Yoshida, H. Ohashi, Y. Uwamino and T. Nakamura ... B52 (1990) 595
Production of ^{41}Ca and K, Sc and V short-lived isotopes by the irradiation of Ti with 35 to 150 MeV protons: applications to solar cosmic ray studies, Fink, D., J. Sisterson, S. Vogt, G. Herzog, J. Klein, R. Middleton, A. Koehler and A. Magliss ... B52 (1990) 601
Measurement of the ^{36}Ar(n, p)^{36}Cl cross section at thermal energies using the AMS technique, Jiang, S.S., T.K. Hemmick, P.W. Kubik, D. Elmore, H.E. Gove, S. Tullai-Fitzpatrick and T.Z. Hossain ... B52 (1990) 608

Cosmogenic nuclides in eucrites, Herpers, U., S. Vogt, K. Bremer, H.J. Hofmann, W. Wölfli, K. Bobe, D. Stöffler, R. Wieler, P. Signer, R. Michel, P. Dragovitch and D. Filges B52 (1990) 612
A search for correlation between fall-out of cosmogenic chlorine-36 and solar activity, Priller, A., G. Korschinek, E. Nolte and W. Rühm B52 (1990) 618

Experimental methods and equipment

An on-demand beam deflection system for microbeam PIXE analysis, Teesdale, W.J. and J.L. Campbell B52 (1990) 93
Coordinate measurement system supported by image processor for emulsion plates, Iyono, A., I. Yamamoto, T. Tomiyama, K. Imaeda, T. Wada and M. Kanada B52 (1990) 98
A new experimental method for phase diagram determinations by neutron absorption spectroscopy, Andreani, C., U. Buontempo, J. Mayers and F.P. Ricci B52 (1990) 199

Letter to the editor

Charge asymmetry in the angular dependence of energy loss in thin foils, Balashova, L.L., V.Ya. Chumanov and N.M. Kabachnik B52 (1990) 206